

## The MINES of ARIZONA

This department is under the direction of Mr. W. E. Defty, the well known mining engineer, who will carefully scrutinize all matters relating to mining in order that only reliable information regarding legitimate enterprises shall find a place here.

The Republic would be pleased to receive information from any part of the state regarding the development of the mining industry. All communications should be addressed: Mining Department Arizona Republican.

### The Cameron Case

We gave in these columns, the full text of the injunction issued by the court. We now give the final decree for it is important to every locator and possessor of a mining claim in the United States. It leaves no loop for the Land Office to escape except that of withdrawal from the stand it has taken.

In the Supreme Court of the District of Columbia.

Ralph H. Cameron, plaintiff, vs. Franklin K. Lane, Secretary of the Interior, and Clay Tallman, Commissioner of the General Land Office, Defendants.

Joseph E. Morrison, Attorney for Plaintiff, Attorney General of the United States, Attorney for the Defendants.

### Decree

This cause came on to be heard on the 14th day of January, 1916, upon defendant's motion to dismiss the bill of complaint and was argued by counsel, whereupon, on consideration thereof, it is, this 14th day of April, 1916.

Ordered, That the motion to dismiss be, and the same is hereby overruled.

And the defendants, by their attorneys, having appeared in open court and elected to stand on their motion to dismiss, and having refused further to plead, and the court having been fully advised as to the merits of the cause by plaintiff's bill made and presented, and having fully considered the law in the premises, it is this 14th day of April, 1916.

Adjudged, That each and all of the mining locations, claims, lodes and placers mentioned in paragraph 1 of plaintiff's bill of complaint are unpatented mining claims located and held by the plaintiff under the mining laws of the United States and of the State of Arizona, and are situated in the County of Coconino, in said State of Arizona, and that on the said locations the plaintiff and his co-owners and their predecessors have done, or caused to be done, at least one hundred dollars' worth of work tending to develop any mineral contents of said claims each year to and including the year 1915; and it is further:

Adjudged, That neither the plaintiff nor any one in his behalf or with his authority has applied for a patent in fee to the lands embraced by the mining locations described in the bill and has not in any way or manner invoked the jurisdiction of the defendants, or of any bureau or office subordinate to or under the control of said defendants, for the purpose of acquiring the fee simple title of the United States to the lands covered by said mining claims or locations, or any of them, or for any purpose whatsoever; and it is further:

Adjudged, That the defendants have no jurisdiction or function to cancel a mining claim or location, except in those cases where application for a patent in fee is made and prosecuted, or in those cases where mining claimants or locators otherwise invoke the jurisdiction of the defendants and that

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32x3 1/2	..... 9.95	2.25	2.45
34x3 1/2	..... 10.95	2.30	2.55
36x3 1/2	..... 12.05	2.40	2.75
30x4	..... 13.20	2.80	3.10
31x4	..... 13.85	2.85	3.20
32x4	..... 14.05	2.95	3.30
33x4	..... 14.70	3.10	3.40
34x4	..... 14.95	3.15	3.50
35x4	..... 15.65	3.20	3.60
36x4	..... 15.85	3.30	3.70
34x4 1/2	..... 20.25	3.85	4.30
35x4 1/2	..... 20.85	3.95	4.35
36x4 1/2	..... 21.25	4.10	4.50
37x4 1/2	..... 21.90	4.15	4.60
38x5	..... 23.65	4.70	5.20
36x5	..... 23.95	4.90	5.35
37x5	..... 24.90	4.95	5.45

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34x4 CI	..... 12.75
36x4 CI or SS	..... 13.50
35x4 1/2 SS	..... 14.00
36x4 1/2 CI or SS	..... 14.00
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the courts alone are vested with jurisdiction to determine the validity of a mining claim or location except where the mining claimant or locator, as aforesaid, is applying for a patent in fee simple or for other relief within the jurisdiction of the defendants to afford; and that any assertion of jurisdiction by the defendants, save within those limitations, tends to cloud the title of the plaintiff, separate, independent and complete from the title in fee possessed by the United States; and it is further:

Adjudged, That the proceedings instituted by authority of the defendants and described and set forth in the plaintiff's bill of complaint, and now pending before the register and receiver of the Land Office at Phoenix, in the State of Arizona, are without authority and void, and are against the power and beyond the jurisdiction of the defendants to authorize, order, or maintain. Wherefore, it is

Ordered, adjudged, and decreed, That the defendants, Franklin K. Lane, Secretary of the Interior, and Clay Tallman, Commissioner of the General Land Office, and each of them, and their successors in office, and all persons claiming to act under the authority or control of either of them, be and they hereby are enjoined from proceeding in any manner, save to dismiss the same, in the matter of any of the contests, or causes of action described in paragraph 1 of the plaintiff's bill, and being known by the defendants under the following titles, to wit:

United States of America vs. Ralph H. Cameron et al. Involving Mining Location No. FS 64959 for Peg Leg Lode, situated in Sec. 3, T. 31 N., R. 2E.; G. & S. R. M.

United States of America vs. Ralph H. Cameron et al. Involving Mining Location No. FS 63075 for Dakota, Bismoch, Apache and Cheyenne Placer Claims.

United States of America vs. Ralph H. Cameron et al. Involving Mining Location No. FS 64967 for Millionaire and Sentinel Treasure Lodes.

United States of America vs. Ralph H. Cameron et al. Involving Mining Location No. FS 64966 for Sunflower, Limestone, Goldenola, Ida May, Butterski and Hilltop Lodes.

United States of America vs. Ralph H. Cameron et al. Involving Mining Location No. FS 64971 for Hermit, George and Polly Placer Claims.

United States of America vs. Ralph H. Cameron et al. Involving Mining Location No. FS 64968 for Eagle Lode, Ana P. is further:

Ordered, adjudged, and decreed, That plaintiff have and recover from the defendants their reasonable costs to be taxed by the clerk.

THOMAS H. ANDERSON,  
Justice.

There was an omission in the first item of law's mining notes. It should have read as follows:

**Production of Arizona**  
Arizona holds first place among the states of the union as a producer of copper. Arizona produces about one-third of the United States output of copper and about one-fifth of the world's product.

March production of the copper companies has shown a heavy expansion as compared with both February and January. Rather, to really state the actual condition, March shows a resumption of normal production following the recovery from exceptionally severe winter conditions in all the copper camps where curtailment in January and February were the rule. From Mexico (Greene-Canaana) up through Arizona (Miami and Inspiration), Montana (Anaconda) and as far north as Alaska (Kenecott), the reports for March are far as released, show an increasing production as compared with previous months. This will be the rule in all the copper camps, as fuller returns for the month come to hand.

**Greene-Canaana**  
Greene-Canaana in March broke all its production records of recent years with an output of 5,388,000 lbs. of copper. This includes copper from ores purchased by the company, as well as output from the company's own mines. The production in recent months compares as follows:

	Copper	Silver	Gold
Pounds Ounces Ounces			
January	1,052,000	125,889	798
February	1,180,000	181,895	984
March	5,388,000	200,709	1,146

The directors of Greene Consolidated will meet April 25 to take action on the dividend. The Greene-Canaana board meets April 27. Greene-Canaana is estimated to have earned \$2,500,000, or slightly over \$5 per share in the first quarter based on 500,000 shares, 14,620,000 pounds production, and a cost of 60 per pound after crediting gold and silver, and miscellaneous income. The company is earning double month nearly double dividend requirements for an entire quarter at the old rate of \$1 per share quarterly.

**Pinal Development Co.**  
The Pinal Development Company, developing the Reindor property near Troy, have greatly increased their working force and at the present time is sinking an incline shaft on the ore. The tunnel being driven to intercept the vein at a depth of 700 feet is already in over 1200 feet. This company is gradually building up a permanent camp and is now installing telephone lines to get in direct connection with outside service. The business-like manner in which this company is being handled, adds greatly to the confidence of those interested in its success. Mr. Charles Hollister, recent foreman with Ray-Cop. Copper Co., has resigned his position to accept a like position with the Pinal Development Company. A notable feature in connection with this company is the fact that the men directing the work are persons of large and varied mining experiences and, in conjunction with the excellent property under development, great success is assured the Pinal Development company.

**Moivre County**  
(From R. E. Connolly)  
Capital furnished by San Francisco and other interests has been furnished for development of the Tipperary Mining Company's property, consisting of

about 120 acres in the southern part of the Outman district, and south of the Black Ringer and Nellie properties. Fred C. Duffer of the San Francisco Stock Exchange, who was instrumental in bringing about the deal, states that a hoist and other machinery of modern character will be shipped immediately and that the shaft will be sunk on the ledge. The company has a capital of 1,250,000 shares, of which 500,000 shares of capital stock have been pooled for seven months and 500,000 shares are in the treasury. The directors include John Hemphill, an official of the Bank of Outman; M. H. Forre, an owner of the townsite; and E. J. Kane, who has directed work in both the United Eastern and Tom Reed mines.

The Gold Road mine owned by the United States Smelting & Refining Co. averaged in 1915 mining costs of \$3.15 per ton, milling \$2.15 per ton, recovering \$6.77 per ton, or \$14.9 per ton operating profits. About 8,000 tons monthly were handled last year in the 300-ton mill. This is the lowest-grade producer in the Outman district. The shaft is now being sunk from 900 to 1,500 feet depth in the hope of reaching a zone of enrichment. The Tom Reed is mining \$20 to \$25 ore to 200 feet below the 800-level, which is the deepest stopping level in the Gold Road. With the Gold Road shaft deepened to 1,500 feet, it will be the deepest opening in the Outman camp.

The Keystone at Mineral Park is a well known property. More than a hundred thousand dollars' worth of high-grade ore has been taken from the present workings, which are 250 feet deep. Immense bodies of low-grade zinc ores were not stopped by the old timers and Messrs. Holmes and Fitzgerald are now unwatering the workings for the purpose of mining them, as well as developing the mine at greater depth.

Some 10,000 tons of the low-grade zinc ore are on the dump of the Keystone, averaging \$29 in gold, silver and zinc per ton. This ore under the flotation method of concentration can be treated at a great profit. Tests on the ore have been made, and plans have been prepared for the mill they intend to build.

### WHAT YAVAPAI SAYS

#### Mining in Arizona

Unusual attention is now directed to tungsten, copper, zinc, lead and silver mining operations because of the high prices obtained for these minerals and the condition of greater demand than supply. Undoubtedly the prospector's pick which has been rusting in the corner of his cabin for a good many years has been called back to service and activity of by-gone days of romance is again the rule in many sections of the West and Southwest. Mining in Yavapai county, Arizona, is treated in the following article, the Prescott, Ariz., Chamber of Commerce having established a bureau of information dealing with these operations.

Now that spring has arrived and removed winter's embargo from the rail and roads hereabouts, the twin industries of prospecting and mining have taken on additional zest in Yavapai county, and are being advanced under more auspicious conditions than ever before. In fact, it is doubtful if there is a mineral section in Arizona, with the exception of Outman, where prospecting and mining are so general in their scope as here.

Mining operations have been on the increase in Yavapai county for some months past, and the results have been in keeping with the expenditure of labor and money, turning last fall and until late December, when successive snow storms made further travel in the high difficult and dangerous, scores of prospectors were in the field. They were, in fact, more numerous than at any previous time during the last ten years. The foregoing statement is substantiated by the numerous location notices filed during the latter part of 1915 in the office of the county recorder.

Mines which have been in continuous operation for a long time have greatly augmented their working forces, and in a number of cases have supplemented their ore-mining appliances by the installation of ore reduction processes. In addition, a large number of mining properties which for some time past had been quiescent, are again being worked. Many prospects are likewise for the first time undergoing development.

Every foot of promising ground is being given the once-over, the up and down and the through and through by the adept prospectors who are flocking to Yavapai county from all portions of the Southwest. Several hundred new locations have been made since the first of the current year, and on some of them are finds of promise have already been announced. Claims on which the assessment work for 1915 had not been done were closely watched and quickly appropriated. The circumstance is mentioned because for some years past little attention was paid locally to whether the annual assessment work was or was not performed on the mining claims in this section.

The renewal of interest in mining, everywhere noticeable in Arizona, caused the claim owners of this country to be more particular than formerly about doing the necessary assessment work and filing proofs of labor. As a result of their precautions, few claims were annulled on the first of the current year because of non-compliance with the mining laws.

The high price commanded by the minerals which are associated with the gold-silver-bearing ores of Yavapai's mining areas, is the lodestone that attracts capitalists and miners. These ores are heavily impregnated with tungsten, copper, zinc, and lead, and are at this time quite as desirable an asset as gold and silver. The mining men of the country have not been slow to recognize this fact and to make investment in sections of this county where these highly valuable minerals of commerce predominate.

Inquiries for mining properties are being received by the Prescott Chamber of Commerce, from various sections of the United States; and, in an effort to get buyer and seller in touch without the agency of a middleman, a bureau of information and correspondence has recently been established. The results are sufficiently encouraging to warrant placing it on a permanent basis.

The permatite, or tungsten-bearing areas, are markedly popular and were among the first to receive close attention. At the present price of tung-

## CASA GRANDE PLANS MUNICIPAL ICE PLANT

The sale of the bonds for the Municipal Water Power & Ice Plant consummated on Thursday was satisfactory to those who have the best interests of the town at heart. The mayor and board of councilmen are to be congratulated for interesting the firm of Powell Grand & Co., for this investment, since they have already invested in the road bonds of Pinal county for \$150,000 and have also bought the recent issue of \$200,000 issued by the City of Tucson. City Engineer Sydney Mashbit who has drawn the plans and specifications has anticipated the growth of the city for some years to come and yet at the same time made the plant which is to be municipally owned self-supporting from the start. When finished Casa Grande will have

ten—scheduled recently at \$50 per unit in Denver—these areas are receiving even closer attention, and are responding satisfactorily to the test of development. The present price of tungsten is the highest in the history of that metal, and indications strongly favor it in remaining at this, or an even higher price for some time to come.

Wolframite and huberite ores are being shipped from various sections of Yavapai county to Pittsburgh, Pa., and Denver, Colo. Tungsten mining, therefore, adds fair to be a very prosperous branch of the local mining industry. It is not, however, to hold the popular attention to the eclipse of copper, lead, zinc and silver—not to mention gold.

Copper, for instance, is the highest in price it has been for many years. As a result, the great United Verde and other copper mines of Yavapai county are being worked as never before. New and commercially valuable bodies of copper ore have of late been found in sections remote from each other. In other instances development has been resumed in copper properties which had for some time been unoperative.

Yet other properties are seen for the first time to undergo development. Among the latter is the Green Monster, said by engineers to be the best copper prospect in the vicinity of the United Verde mine. The Jerome Verde is another copper prospect for which a prosperous future is predicted. The Blue Bell, Copper Hill, Loma Prieta, Commercial, Little Daisy (United Verde Extension), Henrietta and Butternut are prominent among the copper producers of this country, aside from the United Verde.

Zinc, a prominent by-product of the ores of this county is high in price and still soaring. Penalized for many years, the metal has now struck its gold, so to speak, and is hailed as an asset whereas formerly it was execrated as a debit. A stable market for zinc at prevailing or an increased price is assured. It, together with copper, tungsten, and lead, is what might be not inaptly called a mining camp war baby.

Lead, another profitable by-product of Yavapai's ores, is quoted in the pig at from \$6.95 to \$7 per 100 lbs. The mineral is one of a number prevailing in local ores that is readily reclaimed by the oil quotation process.

Another mineral, other than gold, that promises to add materially to the financial well-being of local mine operators is silver. The silver mines of Yavapai county have added millions of dollars to the precious metal wealth of the United States, and at a price of from 65 to 70 per ounce for silver will add other millions to their former contributions.

Prescott and Jerome, the mining centers of Yavapai county, are increasing in population and prosperity. The hotels in both camps are over-crowded with mining and other business men and there is not a vacant house, in either of them. Prescott merchants report that sales during January, February and March of the current year were nearly double those recorded during the corresponding months of last year. Jerome merchants announce similar satisfactory conditions.

**JEROME EXTENSION**  
Private advices say that the ore body being opened by the Jerome Verde Extension is one of the largest and best ever opened. So far the ore body has been opened for 275 feet by 200 feet and is still in ore both ways. The ore is very high grade and one streak 60 feet wide, running for the length of the ore body so far opened, runs 40 per cent copper.

The company is now shipping 150 tons of ore per day to the Douglas smelter and, although the management calls it second grade, it runs from 12 to 20 per cent copper. A mine will soon be sunk, according to the advices quoted, and if the ore body extends down for another 100 feet it will add immensely to the value of the property, which is now considered equal to the price of the stock. An upraise driven of 35 feet ran 20 per cent copper all the way.

It is stated on the authority of the management that the output for April will approximate 2,500,000 pounds, which should show earnings of \$800,000 monthly or at the rate of \$3,600,000 per annum or \$5.50 per share on the stock outstanding.

The Jerome Verde is entirely in new hands. The reason of the extension people relinquishing their option was given in the statement issued by the company February 19. A copy of which appeared in these columns a few weeks ago.

The stock of the Green Monster was largely over-subscribed. The certificates to the subscribers are now being issued.

The Greenflower now known as the Dundee-Arizona only issued 100,000 shares and were all subscribed for privately.

The Jerome Consolidated is the new combination now under the process of construction. It is expected this stock will be issued within the next two weeks. The procedure of disposing of the stock has not been definitely decided upon, but it is probable that the majority of it will be underwritten by eastern parties.

the distinction of having the only municipal ice plant in the United States.

Mr. Sutherland of Kansas City representing Powell Grand & Co. of Chicago who bought the bonds spent a couple of days in town this week.

Mayor and Mrs. Burgess went over to Phoenix Tuesday returning Wednesday night.

Mrs. C. H. Odum of Quijota, Ariz., spent a day or two in town this week. A. L. Pierce and Harry Dewey with J. E. Nier as agent shipped a car of high grade copper oxide this week from the new strike in the Chamberlain mine; E. S. Wilton a car of ore, Andrade Bros. a car from Copper City and the latest report from Days at Quijota is that their ore grows better and they will ship a car at once.

This freight went out from the mines with a car of bags to Brawley, Calif., two cars of cattle shipped by J. G. Gatti, a car of movers and rakes received by W. Ward Davies, while the Government Agent at Sacaton received a car of cement, and one of lumber. Hildebrand's car of cement and Swanzy a car of lumber. Numerous cars of mixed merchandise also have come in the past week.

Casa Grande's land gave a very enjoyable dance at the Air dome on Friday night.

W. R. Clemans of Phoenix has bought out the interest of S. P. Morgan in the Casa Grande Valley Bank and will assume control at once. Mr. Clemans has been with the United Bank of Phoenix for about a year and a half before that having lived at Weiser, Idaho.

Fred Eberhart returned on Thursday from a trip to Los Angeles, bringing with him Mr. Scherer who will act as engineer for Mr. Eberhart.

Mrs. Laceywell of Sacaton was over on Friday.

Mrs. Morgan had an experience with a man Wednesday who wrote a check for fourteen hundred dollars and introduced himself by presenting it for payment, when he had no funds in the bank. Seeing he was not responsible, Marshall Cates was notified and promptly locked Mr. Gregory Eberhart.

Later in the day a message from Phoenix followed by Mr. Leeb from the State Hospital for the Insane gave the news that he was an escaped inmate and has been over at Phoenix for six years. Mr. Leeb took him back Thursday.

Monthly meeting of the Casa Grande Valley Water Users Association was held on Friday night the 14th. Routine business was attended to.

S. O. Chapman a land holder in the valley returned to Los Angeles on Friday night.

On his recent visit to Casa Grande, Mrs. E. M. Wyatt presented Prof. Byron Cummings with an Indian paint pot of Mahapat, which was evidently used by the pre-historic man of which Prof. Cummings spoke so interestingly in his lecture.

Geo. Trues of Phoenix whose land has been contested, was in town on Friday summoning witnesses for his hearing before Commissioner Dan Stevens on April 25th at Florence.

On Friday afternoon Geo. C. Barrows of Toltec, while starting to leave Casa Grande with a load of pipe for his well casing, had to leave his team alone for a moment while he got something on the wagon, and the jarring of the pipe startled the mules which are rather fiery, they started to run. Mr. Barrows caught the off mule, but finding he could not stop them and that he might be thrown under them tried to let go and jump clear, but fell and the wheel passed over his left leg breaking it seriously. Friends were quick at his side.

A. C. Bocken of Chicago who has land in the Kendallworth section of the valley received this week a car load of fine thoroughbred Holsteins from Lake Mills, Wisconsin. These cattle being driven across to Kendallworth, where no doubt they will improve the strain of cattle in that section.

Lawrence G. Wilson of the northeast end of the valley has recently had as his guest a cousin, William Griffin of San Antonio, Tex., who stopped over en route to his home from a winter spent at Modesto, Calif.

Miss Clara Loss has returned to her home after spending two months with her sister, Mrs. Dallas at Geronimo, Ariz.

E. M. Riggs and family took their departure this week for their former home in Nevada where Mr. Riggs has an interest in a mine which has recently taken on renewed vigor and he will be needed to look after it.

Mr. Phelps of the Whymen Land and Development Co., will occupy the house vacated by the Riggs family.

Prof. Eoger is in the valley where he is pursuing his studies of the underground water supply.

W. B. Jeffers and Mrs. Jeffers of Los Angeles have arrived to locate in the growing town of Casa Grande. Mr. Jeffers is an electrical engineer, and sees a good chance here for a man in his line of business.

R. C. Geyler of Douglas passed several days in town this week en route to Flagstaff, Ariz., where he will establish a cattle range. It is understood Mr. Geyler will bring his cattle to the Casa Grande valley to winter them as he has large land holdings in this section.

Geo. T. Follet of Santa Monica, Calif., was an overnight guest to his kinsman, A. G. Lavers on Wednesday night.

Dr. and Mrs. Frenc and Mrs. MacDougal of Tucson were in Casa Grande over Sunday.

Geo. N. Dooley of Tucson was a visitor here the past week.

Mr. Gutzman of the Albert Steinfeld Co., was in town on his monthly visit on Tuesday and Wednesday.

D. H. Smalley was among the visitors from Pasadena who spent several days here last week, called here by the opening of the bids for the bonds for the

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M. F. Sanford of Texas spent several days in the district to the south last week.

W. A. Hammell, D. D. Draper, S. O. Chapman, H. E. O'Brien of Los Angeles have been business visitors to the valley within the past week.

W. A. Tenny, Sr., has returned from a visit to the Northern part of the state.

Messrs. A. Humphreys, A. L. Pierce, Arthur Rice, Ray Woolpert and M. J. Reid have been subpoenaed for jury duty April 24th.